OWNER'S MANUAL

Palsonic

14-INCH COLOUR TV/VCR
TVP-342

Electrical Safety

AS/NZ 3250
CERT 4201
Standards Australia
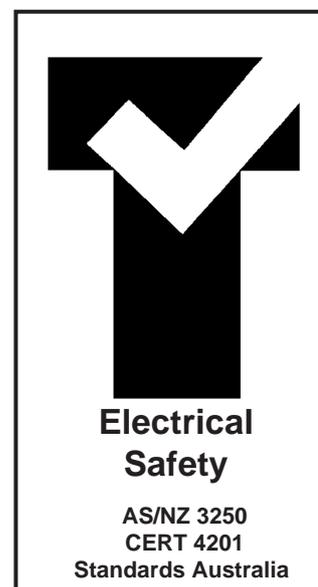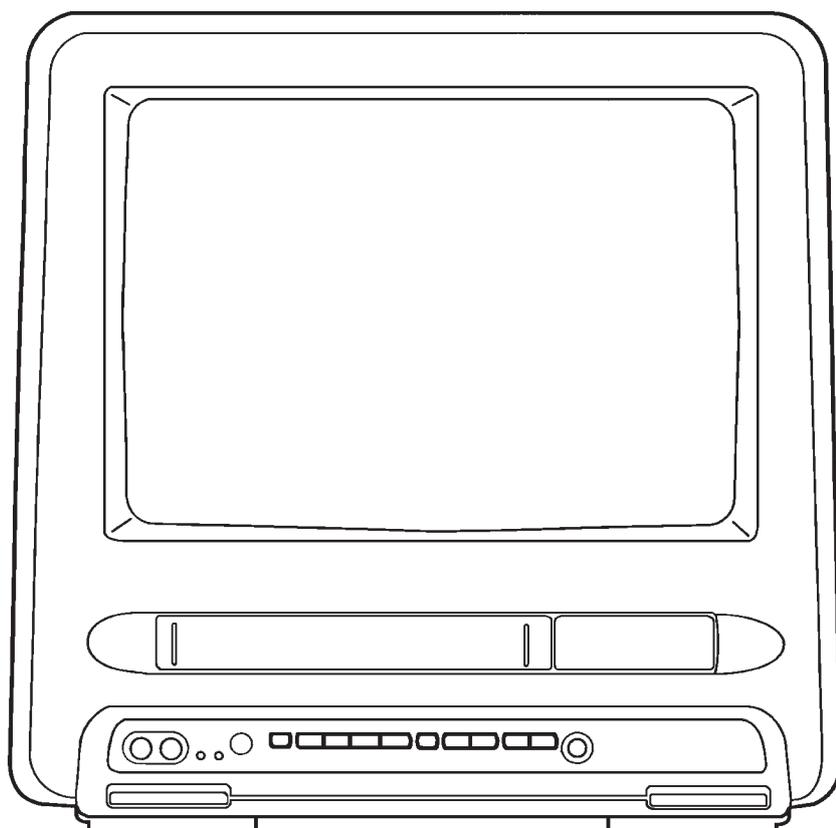
TABLE OF CONTENTS

PRECAUTIONS

LOCATION

For safe operation and satisfactory performance of your unit, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the unit near strong magnetic fields.
- Do not move the unit from a cold to a hot place or vice versa.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to an authorised service centre for servicing.
- Do not put your fingers or objects into the TV/VCR cassette holder.
- Do not place anything directly on top of the unit.

WARNING

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. If a tape is played in a TV/VCR which has moisture, it may damage the tape and TV/VCR. Therefore when the condensation occurs inside the unit turn the FUNCTION button on and allow at least 2 hours for the unit to dry out.

FOR YOUR SAFETY (in Australia) : Install any external aerial to AS 1417.1

IMPORTANT COPYRIGHT INFORMATION
Unauthorised recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorised duplication, use, or other acts which infringe upon the rights of copyright owners.

FEATURES

The infrared remote control
On-Screen-Programming
Voltage Synthesised Tuning
Auto operation functions

- Auto power on system when inserting a tape
- Auto rewind when the end of a tape is reached (not in the case of timer recording)

TV functions

- CATV (Hyper Band)
- Game mode
- Automatic Tuner Memory Programming
- Picture Control Memory

Playback Functions

- Picture search operation
- Still picture
- Digital tracking
- Rental play mode
- Auto repeat playback
- Time search
- NTSC tape playback

Recording functions

- Two different tape speed : SP/LP
- OTR (One Touch Recording)

Timer Functions

- Automatic timer recording including Daily & Weekly
- Auto return feature when timer recordings are completed
- Sleep timer

SUPPLIED ACCESSORIES

Remote Control Unit	2 "R6/AA/SUM-3" Batteries
PART NO. (UREMT31SR006)	
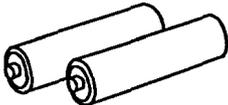
- If you need to replace these accessories, please refer to the PART NO. under the illustrations and contact the parts department for ordering.

VIDEO CASSETTE

This TV/VCR will operate with any cassette that has the VHS mark. For best results, we recommend the use of high-quality tapes. *Do not use poor quality or damaged tapes.*

PRECAUTIONS

- Avoid moisture. Moisture condensation may occur on the tape if it is moved from a cold place to a warm place. Before using a tape with these conditions, to avoid a damage of the tape and your TV/VCR, wait until the tape has warmed to room temperature and the moisture has evaporated.
- Avoid extreme heat, high humidity and magnetic fields.
- Do not tamper with the cassette mechanism.
- Do not touch the tape with your fingers.

TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed from : SP mode (Standard Play) or LP mode (Long Play).
The table below shows the maximum recording/ playback time using E-60, E-120, E-l80 or E-240 tapes in each mode.

Tape Speed	Recording/Playback Time			
	Type of tape	E-60	E-120	E-180	E-240
SP mode	1 hour	2 hours	3 hours	4 hours
LP mode	2 hours	4 hours	6 hours	8 hours

INSERTING A CASSETTE

Insert the cassette in the direction as shown. Push in gently, but continuously, on the centre-back of the cassette until it is drawn into the TV/VCR.
The TV/VCR will automatically turn on.

Window

CORRECT   WRONG
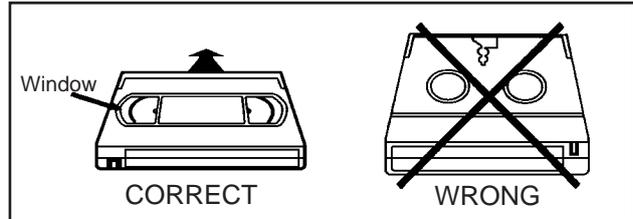
REMOVING A CASSETTE

1) In the Stop mode, press EJECT button on the remote control or press STOP/EJECT button on the TV/VCR. The cassette will eject.
2) Pull the cassette out of the cassette compartment.
3) Store the cassette in its case as shown.
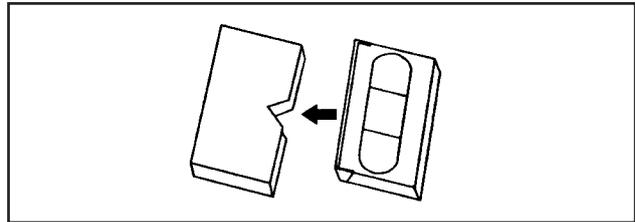
ERASE PREVENTION

You can prevent accidental erasing of recording by breaking off the tab on the back edge of the cassette.

Tab
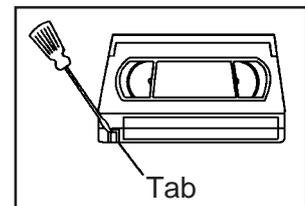
If you decide to record on the tape again, cover the hole with a plastic tape

Transparent Tape
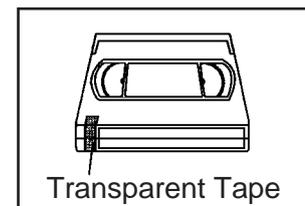
OPERATING CONTROLS AND FUNCTIONS

-FRONT VIEW-
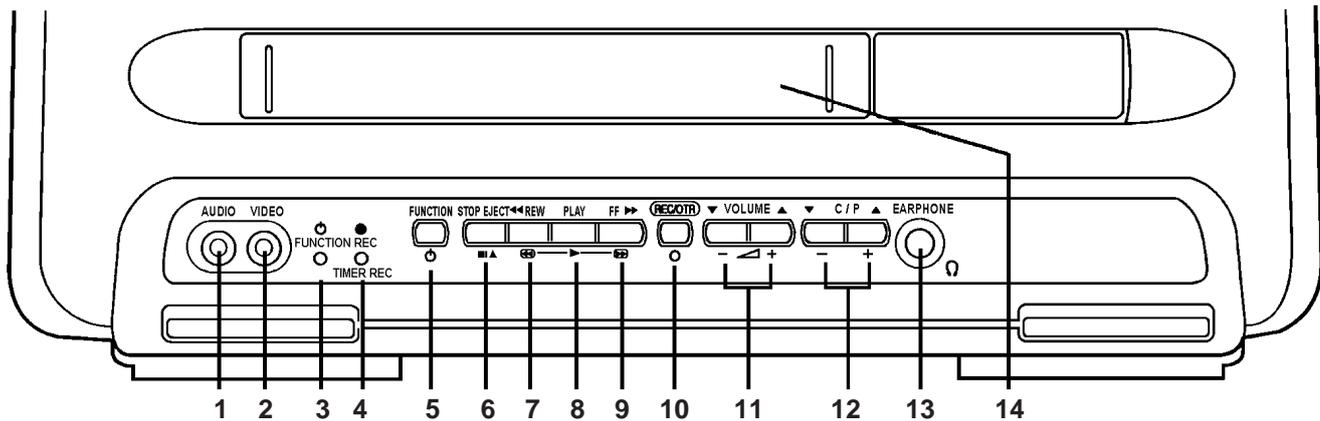
- REMOTE CONTROL VIEW -
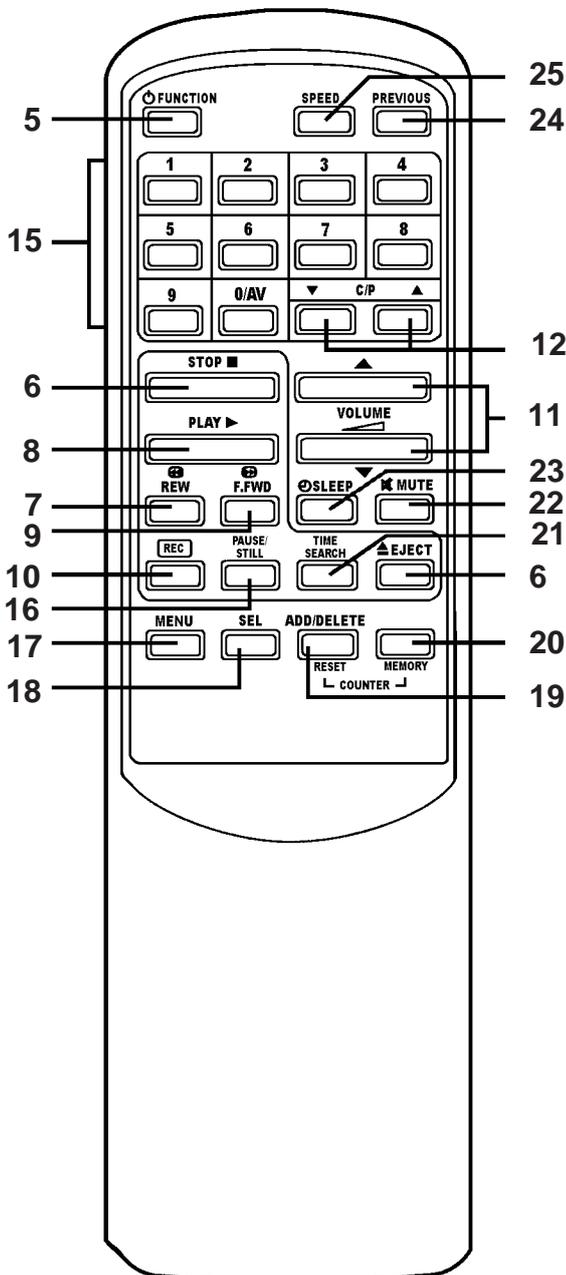
1 **AUDIO input jack-** Connect to audio output jack of your audio equipment or another VCR.
2 **VIDEO input jack-** Connect to video output jack of your video camera or another VCR.
3 **FUNCTION indicator-** Lights up in the Standby mode.
4 **REC indicator-** Flashes during recording.
   TIMER REC indicator- Lights up in the Stand-by mode for Timer Recording.
5 **FUNCTION button-** Press to turn TV/VCR on and off. Press to activate the automatic timer recording.
6 **STOP button-** Press to stop the tape motion.
   EJECT button - Press in the Stop mode to remove a tape from the TV/VCR.
7 REW button- Press to rewind the tape, or to view the picture rapidly in reverse during the Play mode. (Rewind Search)
8 **PLAY button-** Press to begin playback of a tape.
9 **F.FWD button-** Press to rapidly advance the tape, or to view the picture rapidly in forward during the Play mode. (Forward Search)
10 **REC button-** Press to begin manual recording.
    OTR button- Press to activate One Touch Recording. (used on the TV/VCR only)
11 **VOLUME ▲/▼ buttons-** Press to adjust the volume level.
12 **C(hannel) ▲/▼ buttons -** Press to select the channel for viewing or recording.
    P(icture) ▲/▼ buttons- Press to adjust the picture control. (See page 13.) (used on the remote control only)
    Tracking +/- function- Press to minimise video 'noise' (lines or dots on screen) during the Play mode. (See page 14).

6
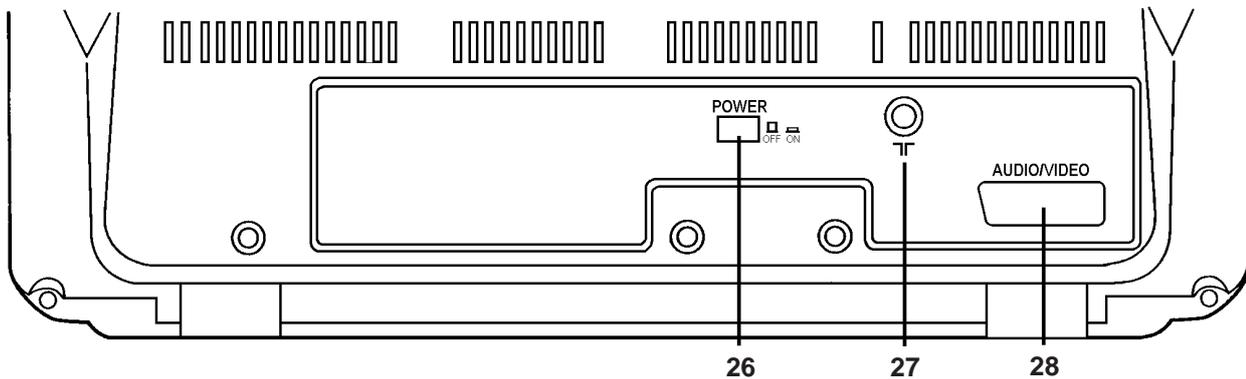
13 **EARPHONE jack-** Connect to earphone (not supplied) for personal listening. The size of jack is 1/8" monaural (3.5mm).

14 **Cassette compartment**

15 **NUMBER buttons-** Press to select desired channels. for viewing or recording. To select channels 1 to 9, first press the 0 button and then 1 to 9.
0/AV button- Press to select VCR mode. (For example, press "0" then "0" for VCR mode.) To release VCR mode, press two digits to directly access any channel you choose.

16 **PAUSE/STILL button-** Press to temporarily stop the tape during the recording or to view a still picture during playback.

17 **MENU button-** Press to display main menu on the TV screen.

18 **SELECT button-** When setting program (for example: setting clock or timer program), press to determine your selection and proceed to a next step you want to input.
Display function- Press to display the counter or the current channel number and current time on the TV screen. (See page 12).

19 **ADD/DELETE button-** Press to delete or add channel numbers in the Channel Set Up mode (See page 9). Press to cancel a setting program (for example: setting clock or timer program) (See page 20). (These functions are operative only when the menu is shown on the TV screen.)
COUNTER RESET button- Press to reset counter to 0:00:00.

20 **COUNTER MEMORY button-** Press to set counter memory on and off. (See page 16).

21 **TIME SEARCH button-** Press to activate Time Search mode.

22 **MUTE button-** Press to mute sound. Press it again to resume sound.

23 **SLEEP button-** Press to set the Sleep Timer. (See page 21).

24 **PREVIOUS button-** Press to go back to the previously viewed channel. For example, pressing this button once will change channel display from 3 (present channel) to 10 (previously viewed channel), and pressing it a second time will return from 10 to 3.

25 **SPEED button-** Press to set desired recording speed. (SP/LP).

26 **POWER switch-** Press to turn TV/VCR off and Stand-by. When you do not use for a long period, press to turn off or unplug the power cord.

27 **ANT. terminal-** Connect to an antenna or Rod Antenna.

28 **AUDIO/VIDEO socket-** Connect to audio/video socket of a video camera or VCR.

PREPARATION FOR USE

CABLE CONNECTIONS

VHF/UHF COMBINED ANTENNA

The VHF/UHF Rod Antenna (not supplied) is detachable. Push the stem of the antenna into the hole which is located on the upper back cabinet of the unit. Connect the VHF/UHF Rod Antenna or VHF/UHF Combination Antenna to the ANT. terminal of the TV/VCR as shown in the diagram below.
For the best reception, extend the VHF/UHF Rod Antenna fully and adjust its position. (Avoid handling the top section when making adjustments.)
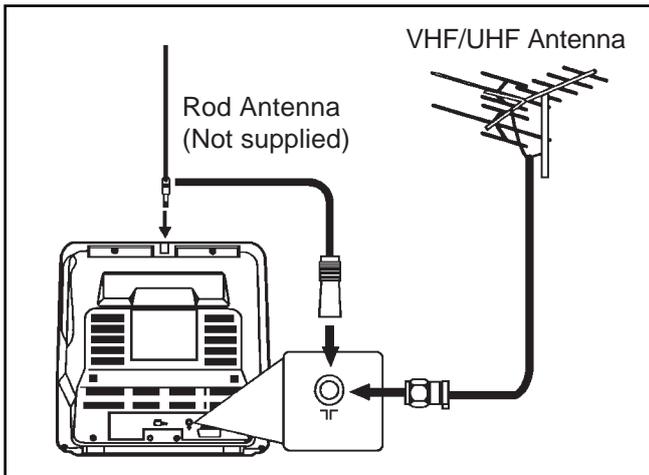
VHF/UHF SEPARATE ANTENNAS

In some areas it will be necessary to use an outdoor antenna.
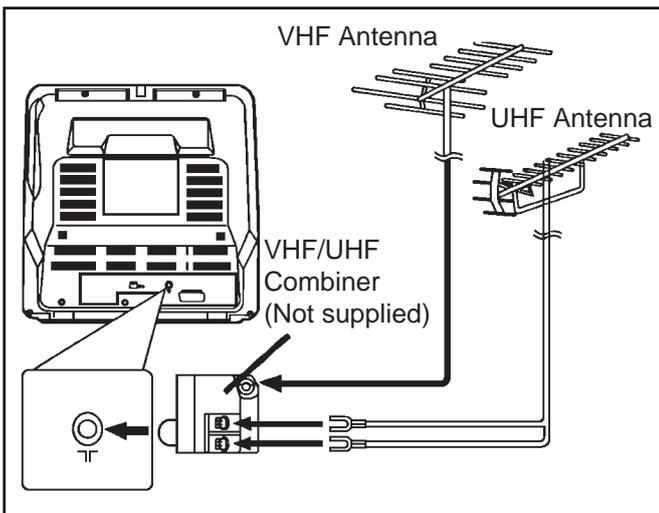
INSTALLING THE BATTERIES

1) Open the battery compartment cover by pressing the cover on the remote unit in the direction of the arrow.
2) Insert 2 "R6/AA/SUM-3" penlight batteries into the battery compartment in the direction indicated by the polarity (+/-) markings.
3) Replace the cover.
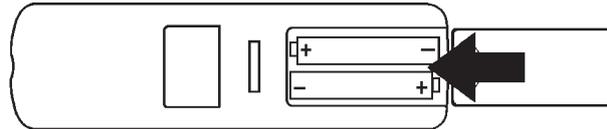
EXTERNAL INPUT MODE

When using an external input signal (another VCR or camcorder), connect the player's audio/video output cables to the AUDIO/VIDEO socket of your TV/VCR.
Then press CHANNEL ▲ or ▼ button or enter "00" with number button so that "AUX" appears on the screen.

PRESET FOR USE

You can program the tuner to scan only the channels you receive in your area. **You must use the remote control for the following steps.**

CHANNEL MEMORY PROGRAMMING - AUTO PRESET

1 Plug the TV/VCR power cord

Plug the TV/VCR power cord into a standard AC outlet.

Press POWER switch on the back of the TV/VCR to switch to "ON".

POWER

OFF ON

2 Turn on the TV/VCR

Press FUNCTION button to turn on the TV/VCR.

3 Select "CHANNEL SET UP"

Press MENU button repeatedly to point to "CHANNEL SET UP".
Then, press SEL. button.

```
        -MENU-
    TIMER PROGRAMMING
    PICTURE CONTROL
    SETTING CLOCK
 ►  CHANNEL SET UP
    USER SET UP
```

4 Select "AUTO PRESET"

Press SEL. button.
The tuner scans and memories all the active channels in your area.

```
    - CHANNEL SET UP -
 ►  AUTO PRESET
    MANUAL PRESET
```

5 After scanning

The tuner stops on the lowest memorised channel.
If you want to recall the selected channels, you can select the desired channel directly with the remote control number button or CP ▼ or ▲

```
    AUTO PRESET    1
```

TO RETURN TO TV MODE WHEN SCANNING
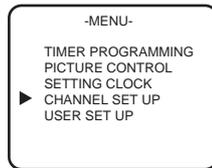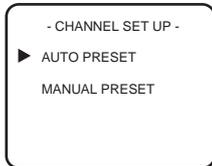
Press MENU button in scanning mode.

TO SKIP A PRESET CHANNEL

The channels you no longer receive or seldom watch can be deleted from the memory.

1 Select "CHANNEL SET UP"

Press MENU button repeatedly to point to "CHANNEL SET UP".
Then, press SEL. button.

```
        -MENU-
    TIMER PROGRAMMING
    PICTURE CONTROL
    SETTING CLOCK
 ►  CHANNEL SET UP
    USER SET UP
```

2 Select "MANUAL PRESET"

Press MENU button to point to "MANUAL PRESET".
Press SEL. button.

```
    -CHANNEL SET UP-
    AUTO PRESET
 ►  MANUAL SET UP
```

3 Enter the desired channel number

Press C/P ▼ or ▲ button repeatedly until your desired channel number is appeared. (You can also use the number buttons to enter it)

```
    MANUAL SET UP

 VHFL            2
 □■□□□□□□□□□□□□□
```
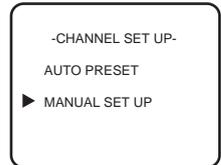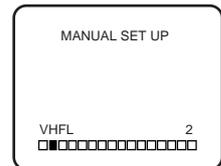
NOTES:
- The bands are switched as follows by pressing ADD/DELETE button. (Example: Now the receiving band is VHFL)   VHFL   SKIP
- When you will select the band, press MEMORY button. The mode will change VHFL, VHFH, UHF.

4 Skip it from memory

Press ADD/DELETE button repeatedly until the word "SKIP" appears on the TV/VCR screen.
The channel is skipped from memory.

```
    MANUAL SET UP

 VHFL            1
 □■□□□□□□□□□□□□□
```
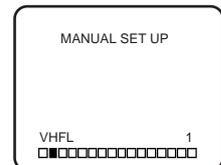
- To skip another channel, repeat steps [3] and [4].

5 Exit the channel setup mode

Press MENU button to returns to TV mode.
NOTES:
- To confirm that channel(s) has been deleted, press C/P ▼ or ▲ button.
- Button selections for Manual Preset mode should be done within 30 seconds, otherwise Manual Preset mode will be out.

MANUAL PRESET

1 Select "CHANNEL SET UP"

Press MENU button repeatedly
to point to "CHANNEL SET
UP".
Then, press SEL. button

```
            -MENU-

      TIMER PROGRAMMING
      PICTURE CONTROL
      SETTING CLOCK
   ▶  CHANNEL SET UP
      USER SET UP
```

2 Select "MANUAL PRESET"

Press MENU button to point to
"MANUAL PRESET".
Press SEL. button.

```
    -CHANNEL SET UP-

    AUTO PRESET

  ▶ MANUAL SET UP
```

3 Enter the desired channel number

Press C/P ▼ or ▲ button
repeatedly until your desired
channel number is appeared.
(You can also use the number
buttons to enter it)

```
    MANUAL SET UP




  VHFL              2
  □■□□□□□□□□□□□□□
```
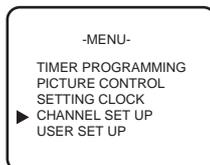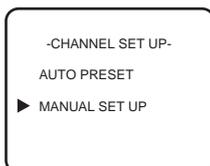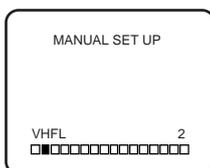
NOTES:
- If selected channel is in "SKIP" mode, press
  ADD/DELETE button to set the channel range.
- When you will select the band, press MEMORY
  button. The mode will change VHFL, VHFH, UHF.

4 Set the receiving channel

Press VOLUME ▼ or ▲ button
to set the receiving channel.

```
    MANUAL SET UP




  VHFL              1
  □■□□□□□□□□□□□□□
```

NOTES:
- When you will select the band,
  keep pressing VOLUME▲ or
  ▼ button. The mode will
  change VHFL, VHFH, UHF.
- To memorise another channel, repeat steps [3] and
  [4].
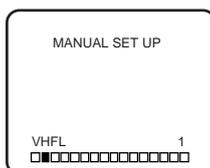
5 Memorising the selected channel

Press MENU button to memorise the selected channel.

CLOCK SETTING

In the example below, the clock is to be set to:

DATE   March 1st, 1996
SETTING TIME   17:40

1 Select "SETTING CLOCK"

Press MENU button repeatedly
to point to "SETTING CLOCK".
Then, press SEL. button.

```
            -MENU-
     TIMER PROGRAMMING
     PICTURE CONTROL
  ▶  SETTING CLOCK
     CHANNEL SET UP
     USER SET UP
```

2 Select the month

Press C/P ▼ or ▲ button
repeatedly until your desired month
is appeared. (Example: "03" for
March)
Then, press SEL. button.

```
       -SETTING CLOCK-
  MONTH    DAY    YEAR
   03      - -  - - - - - -

  HOUR     MINUTE
  - -       - -
```
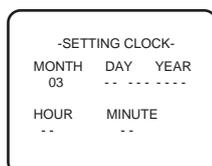
3 Select the day

Press C/P ▼ or ▲ button
repeatedly until your desired day
is appeared. (Example: "01" for
1st)
Then, press SEL. button.

```
       -SETTING CLOCK-
  MONTH    DAY    YEAR
   03      01   - - - - - -

  HOUR     MINUTE
  - -       - -
```
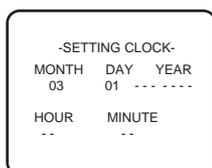
4 Select the year

Press C/P ▼ or ▲ button
repeatedly until your desired year
is appeared. (Example: 1996)
Then, press SEL. button.

```
       -SETTING CLOCK-
  MONTH    DAY    YEAR
   03      01   FRI 1996

  HOUR     MINUTE
  - -       - -
```
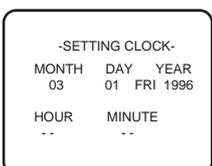
5 Select the hour

Press C/P ▼ or ▲ button
repeatedly until your desired hour
is appeared. (Example: 17)
Then, press SEL. button.

```
       -SETTING CLOCK-
  MONTH    DAY    YEAR
   03      01   FRI 1996

  HOUR     MINUTE
   17       - -
```
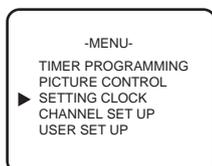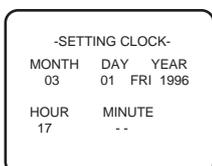
6 Select the minute

Press C/P ▼ or ▲ button
repeatedly until the desired
minute is appeared.
(Example: 40)

```
       -SETTING CLOCK-
  MONTH    DAY    YEAR
   03      01   FRI 1996

  HOUR     MINUTE
   17       40
```
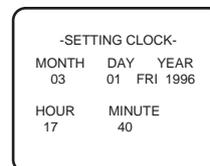
7 Start the clock

Press MENU or SEL. button.
Although seconds are not
displayed, they begin counting
from 00 when you press MENU
or SEL. button. Use this feature to
synchronise the clock with the correct time.

```
                    17:40
```
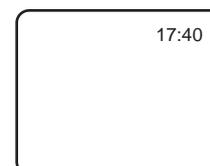
● This unit has a built in calendar up to the year 2010.

TO CHANGE CLOCK SETTING

If you want to change the clock,
1) Follow steps [1] and [2]
2) Select a digit you want to change using SEL. button.
3) Enter correct numbers using C/P ▼ or ▲ button.
4) Press MENU or SEL. button to start the clock.

ON SCREEN DISPLAY

To check the Counter, Clock and Channel number on the TV screen, press SEL. button on the remote control. Each time you press SEL. button on the remote control, the TV screen will change as follows:

- In the Counter mode, after 5 seconds, only the counter remains. To clear it, press SEL. button.
- In the Clock mode, after 5 seconds, only the clock and the channel number remain. To clear them, press SEL. button.

OFF mode   **Counter mode**   **Clock mode**

STOP

SP   COUNT   0:12:34

After 5 seconds

COUNT   0:12:34

Counter remains

STOP   17:40
                        CH2

SP

After 5 seconds

                       17:40
                       CH2

Clock & Channel remains
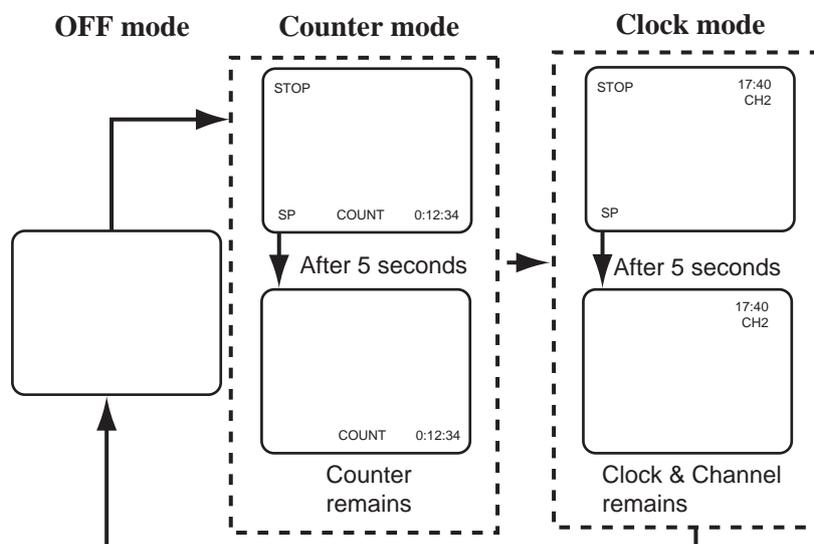
SPECIAL FEATURES

DEGAUSSING

Magnetism from nearby appliances might affect the colour of the TV picture.
If this happens, move this unit away from the appliance.
If the colour is still not correct, disconnect power cord from AC outlet then reconnect it after 30 minutes.

AUTO REWIND-EJECT

- When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning, power off and tape ejects.
- This function is operative when Auto Repeat is set to the [OFF] position.
- The tape will not auto-rewind during timer recording or One Touch Recording.
- When the tape is rewound to the preset memory position of the Counter Memory during Auto Rewind, the tape will not eject and TV/VCR will not turn off.

TV OPERATION

WATCHING A TV PROGRAM

1 Turn on the TV/VCR

Press POWER switch on the back of the TV/VCR to switch to "ON". Press FUNCTION button to turn on the TV/VCR.

2 Select the channel number

Press C/P ▼ or ▲ button to select your desired channel number.

CH06

3 Adjust the volume is you need

Press VOLUME ▼ or ▲ button to adjust the volume.

VOLUME 20
|||||||||||||||

GAME MODE

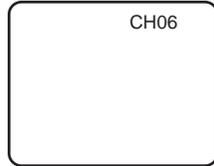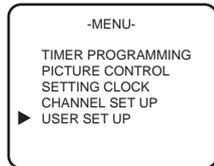This function enables you to adjust the TV screen making it suitable for use with a TV GAME.

Make sure . . .

You must use the remote control unit for the following steps:

1 Select "USER'S SET UP"

Press MENU button repeatedly to point to "USER'S SET UP". Then, press SEL. button.

```
        -MENU-

   TIMER PROGRAMMING
   PICTURE CONTROL
   SETTING CLOCK
   CHANNEL SET UP
 ▶ USER SET UP
```

2 Set "GAME MODE" to [ON]

Press C/P ▼ or ▲ button repeatedly until [ON] is appeared.

```
    -USERS SET UP-

 ▶ GAME MODE    [ON]
   RENTAL       [OFF]
   REPEAT PLAY  [OFF]
   AUTO RETURN  [OFF]
```
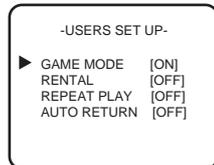
3 Exit the Game mode

Press MENU button repeatedly until the TV/VCR return to the TV mode.

TO CANCEL, THE GAME MODE

Repeat step [1] Then, step [2] to select [OFF]. Press MENU button to return to TV mode.

PICTURE CONTROL

The TV/VCR's picture controls - **BRIGHTNESS**, **CONTRAST**, **COLOUR** and **SHARPNESS** - are preset to the factory specification. This is usually best, but if you need to make any further adjustments adjust picture controls for a natural looking image.

NOTES:
- Procedures must be followed within 5 seconds. Otherwise the Picture Control mode will be cancelled.
- When setting the Picture Control, the Game mode will be automatically set to [OFF].

Make sure . . .

You must use the remote control unit for the following steps:

1 Select "PICTURE CONTROL"

Press MENU button repeatedly to point to "PICTURE CONTROL" Then, press SEL. button.

```
        -MENU-

   TIMER PROGRAMMING
 ▶ PICTURE CONTROL
   SETTING CLOCK
   CHANNEL SET UP
   USER SET UP
```
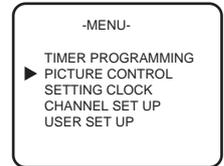
2 Select item you want to adjust

Press SEL. button repeatedly until desired control is displayed.

Each time you press SEL. button, "BRIGHT", "CONTRAST", "COLOUR" and "SHARPNESS" will appear on the TV screen in sequence.
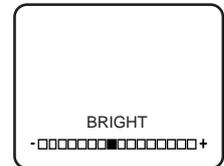
BRIGHT
-□□□□□□□■□□□□□□□+

3 Adjust the picture control

Press C/P ▼ or ▲ button to adjust the picture control to your desired level.

	C/P ▼	C/P ▲
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to pale	to brilliant
TINT	to purple	to green
SHARPNESS	to soft	to clear

NOTE: "TINT" will appear on the TV screen, only when an external input signal is used and a NTSC recorded tape is played back.

NORMAL PLAYBACK

Make sure . . .

l   Power must be turned on.

1 Insert a prerecorded tape

If the erase-protection tab has been removed, the TV/VCR will start playback automatically.

2 To begin playback

Press PLAY button.

> PLAY ▶

3 To stop playback

Press STOP button when playback is completed.

> STOP

TRACKING ADJUSTMENT

• Tracking adjustment will be set automatically (Digital Tracking function) when you start playback.

• When playing pre-recorded tapes or tapes recorder on units other than your own, noise lines (black and white streaks) may appear on the playback picture. If this occurs, adjust the tracking control by pressing C/P ▼ or ▲ button until the streaks disappear. To return to the DTR function, stop the tape once and start playback again.
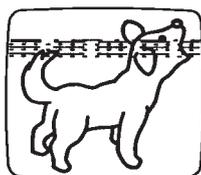
PICTURE SEARCH

This feature is useful in finding or skipping over a particular scene on a tape. In this mode, the sound will be muted.

1) You may view a video tape at a high speed in either a forward or reverse direction by pressing F.FWD or REW button.

NOTE: When searching a pre-recorded tape, it may. cause a noise bar on the TV screen and the picture may revert to Black and White. This is normal.

2) For normal speed, simply press PLAY button.

STILL PICTURE

You can view a still picture on the screen during playback (the Still mode). Press PAUSE/STILL button during playback.

Press PLAY button to return to playback.

NOTES:

• Usually there will be video "noise" lines (black and white streaks or dots) on the screen. This is normal. **This is not a fault of the machine but merely a by-product of the technology involved in producing a TV/VCR with LP mode.**

• If it is left in the Pause mode for more than five minutes, the TV/VCR will automatically switch to the Stop mode.

NOISE CANCEL (in the Still mode)

This feature allows you to reposition or reduce the noise lines of a still picture.

Press PAUSE/STILL button repeatedly so that the noise lines change position on the screen and you can see the picture in its entirety without distracting noise lines.

NOTE: If you use the PAUSE/STILL button to freeze the picture during playback, the still picture may, in addition to the "noise bars", revert to black and white. This is normal.

SPECIAL PLAYBACK

Make sure . . .

- You must use the remote control for the following steps

- Power must be turned on.
- Insert a prerecorded tape.
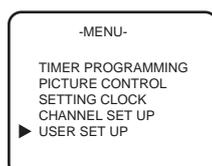- Before playback, follow steps below.

RENTAL PLAYBACK

This function enables you to improve the picture quality when playing back worn cassettes such as those rented from a video shop.
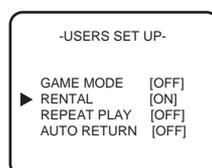
1 Select "USER'S SET UP"

Press MENU button repeatedly to point to "USER'S SET UP". Then, press SEL. button.

```
-MENU-

TIMER PROGRAMMING
PICTURE CONTROL
SETTING CLOCK
CHANNEL SET UP
► USER SET UP
```

2 Set "RENTAL" to [ON]

Press MENU button to point to "RENTAL".
Press C/P ▼ or ▲ button repeatedly until [ON] is appeared.

```
-USERS SET UP-

  GAME MODE     [OFF]
► RENTAL        [ON]
  REPEAT PLAY   [OFF]
  AUTO RETURN   [OFF]
```

3 Exit the Rental setting

Press MENU button repeatedly until the TV/VCR return to the TV mode.

4 Start playback

Press PLAY button to start playback. "RENTAL PLAY ▶" appears.

- Once you select the Rental mode, it stays in effect even after you turn off the TV/VCR.

TO CANCEL THE RENTAL MODE

Repeat steps [1]. Then, follow step [2] but select [OFF]. Press MENU button to return to TV mode.

REPEAT PLAYBACK

The TV/VCR has an auto repeat function that allows you to repeat a tape indefinitely without using the PLAY button. There are two selections for Auto Repeat Playback.
ALL REPEAT: repeat playback from the beginning to the end of the tape.
BLANK REPEAT: repeat playback from the beginning to the blank part, which is not recorded anything for more than 10 seconds.
NOTE: All buttons except FUNCTION and STOP buttons do not work during Repeat Playback. Always set the Repeat Playback to [OFF] when not in use this function.

1 Select "USER'S SET UP"

Press MENU button repeatedly to point to "USER'S SET UP". Then, press SEL. button.

```
-MENU-

TIMER PROGRAMMING
PICTURE CONTROL
SETTING CLOCK
CHANNEL SET UP
► USER SET UP
```
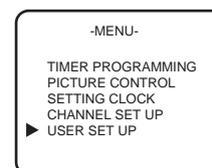
2 Select "ALL" or "BLANK"

Press MENU button repeatedly to point to "REPEAT PLAY"
Press C/P ▼ or ▲ button repeatedly until your desired selection [ALL] or [BLANK] is appeared.

```
-USERS SET UP-

  GAME MODE     [OFF]
  RENTAL        [OFF]
► REPEAT PLAY   [ALL]
  AUTO RETURN   [OFF]
```
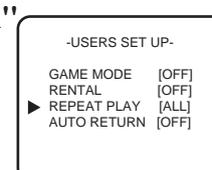
3 Exit the Repeat Play setting

Press MENU button repeatedly until the TV/VCR return to the TV mode.

4 Start playback

Press PLAY button to start the Repeat Play. "REPEAT PLAY ▶" appears.

- Once you select the Repeat Play mode, it stays in effect even after you turn off the TV/VCR.
- If the Rental mode is set [ON], the "RENTAL PLAY ▶" display has priority.

TO CANCEL THE REPEAT PLAY MODE

Press STOP button to stop playback. And repeat steps [1] then follow step [2] but select [OFF]. Press MENU button repeatedly until the TV/VCR return to the TV mode.

SEARCH

Make sure . . .
- You must use the remote control for the following steps.
- Power must be turned on.
- Insert a tape.

COUNTER MEMORY

This feature can be used to memorise a beginning point that you want to review. And you can search it easily by rewinding or fast forwarding.

NOTE:
- **If the counter is not displayed, the Counter Memory will not be activated. Press COUNTER MEMORY button so that the counter appears on the display.**

1 Stop a tape at your desired point

Rewind or fast forward the tape to the beginning point

2 Reset the counter to 0:00:00

Press COUNTER RESET button.

3 Select the Counter Memory mode

Press COUNTER MEMORY button so that "MEMORY" appears on the display.

```
MEMORY     0:00:00
```

### 4 Begin recording or playback

Press REC or PLAY button.
Press STOP button when recording or playback is completed.

5 To activate the Counter Memory

Press REW (or F.FWD) button. The tape will automatically stop when the counter returns to 0:00:00

TO CANCEL THE COUNTER MEMORY

First, have the TV/VCR appear on the counter of the TV screen, then press COUNTER MEMORY button so that "COUNT" appears on the TV screen.

```
COUNT      0:00:00
```
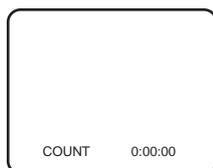
TIME SEARCH

The Time Search function makes it possible to quickly advance the tape to your desired position from any position by entering the exact amount of playback time of the part that you want to skip.

NOTES:
- Time Search is set up to 9 hours 50 minutes (9:50) by 10 minutes at a time.
- This function is not operative in recording mode.
- Counter Memory function is not operative in this mode.
- This function is not operative when a cassette tape is not inserted in the TV/VCR.

In the example below: To watch a program after 2 hour 50 minutes from present position to forward direction.

1 Select "TIME SEARCH" mode

Press TIME SEARCH button

2 Enter your desired time

Press C/P ▼ or ▲ button repeatedly until your desired time is appeared. (Example: "2:50" for 2 hours 50 minutes)

```
TIME SEARCH
   2:50
```
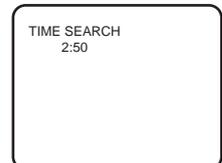
3 Begin Time Search

Press REW or F.FWD button. The tape will move to the specified point.
The time counts down as the searching progresses.
When 0:00 is reached, the tape will start playback automatically.

TO CANCEL THE TIME SEARCH

Press STOP button on the TV/VCR or the remote control. This will delete the selected time.

RECORDING

Make sure . . .

- Power must be turned on.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NORMAL RECORDING

You can only watch the same TV program that is being recorded.

1 Select the channel to be recorded

Press number buttons on the remote control or the C/P ▼ or ▲ button.

CH10
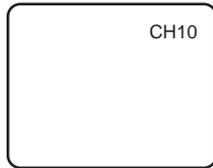
2 Select the tape speed

Press SPEED button to select the desired tape speed (SP/LP).

SP

3 Begin recording

Press REC button. The REC indicator flashes.

REC

SP
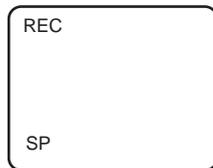
4 Stop recording

Press STOP button when recording is completed.

SKIPPING SOME MATERIALS DURING RECORDING

Press PAUSE/STILL button to temporarily stop recording. The REC indicator blinks.
Press PAUSE/STILL or REC button to resume recording.

PAUSE

SP
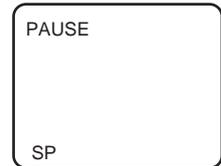
NOTES:

- To prevent tape damage, after five minutes, the TV/VCR will automatically return to the Recording mode.
- When in the Pause/Still mode, a display showing 5 " ■ " marks will appear on the screen. Each " ■ " mark represents one minute of Pause time. You may refer to this display for remaining pause time available.

NORMAL RECORDING

This function enables you to set a recording length simply by pressing REC/OTR button on the TV/VCR.

Make sure . . .

- Power must be turned on
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

NOTE: This function cannot be done by the remote control.

1 Select the channel to be recorded

Press number buttons on the remote control or the C/P ▼ or ▲ button.

2 Begin OTR

Press REC/OTR button on the TV/VCR as many times as needed. The recording length will be determined by the number of times you press REC/OTR button.

```
OTR (2:30)



SP
```

Each additional push will increase the recording time by 30 minutes. It is set up to 8 hours.

Push(es)	Display	Recording length
1 push	(normal recording)	
2 pushes	0:30	30 minutes
3 pushes	1:00	60 minutes
↓	↓	↓
17 pushes	8:00	480 minutes

HINTS:

- Recording starts immediately when the REC/OTR button is pressed.
- When REC/OTR button is pressed 18 times, the TV/VCR will switch to the Normal Recording mode.
- To stop the OTR operation, press STOP button on the TV/VCR or on the remote control.
- To show the remaining time, press SEL. button repeatedly until "OTR" appears on the TV screen.
- Recording stops when 0:00 is reached.
- If the tape runs out before the end time, the TV/VCR will switch to the Stop mode immediately, eject the tape and the TV/VCR power will be turned off.

COPYING A VIDEO CASSETTE (Requires another VCR)

Connect your TV/VCR and a Source (Playing) VCR using the following diagram.
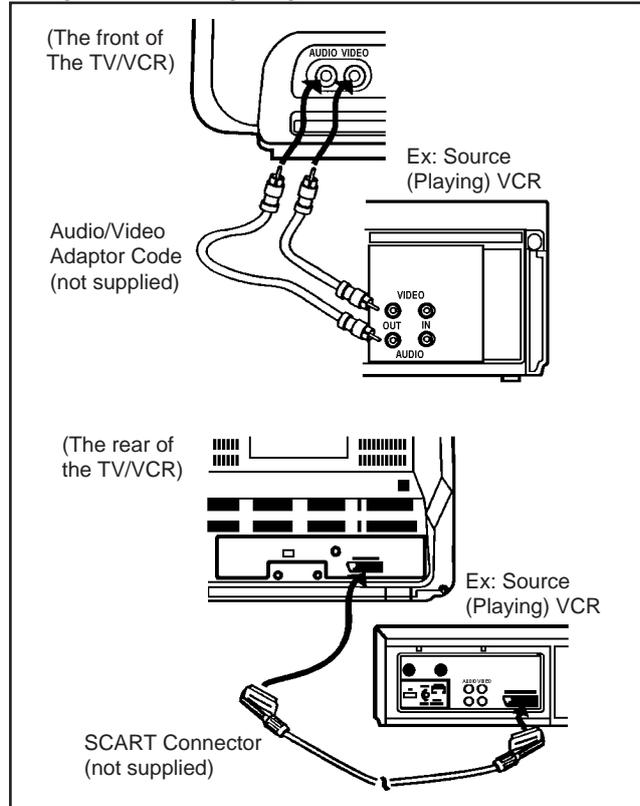
1) Insert a pre-recorded video cassette into the Source (Playing) VCR.
2) Insert a blank video cassette or one you want to record over, into the TV/VCR's cassette compartment.
3) Press SPEED button to select the desired recording speed (SP or LP).
4) Press C/P ▼ or ▲ button repeatedly so that "AUX" appears on the screen.
5) Begin playback of the tape in the Source (Playing) VCR.
6) Press REC button on the TV/VCR.

NOTE: For best results during dubbing, use the TV/VCR front panel controls whenever possible. The remote control might affect the Source (Playing) VCR's playback operation.

TIMER

AUTOMATIC TIMER RECORDING

You may set the TV/VCR to record while you are away. You can set 8 programs to record on a specific day, daily or weekly within a 1 year period.

In the example below, the timer is being set to record:

DATE:	MAY 6th 1996
SETTING TIME:	from 19:30 to 20:50
CHANNEL:	CH36
TAPE SPEED:	LP
PROGRAM NO.:	4

NOTE: You must use the remote control for this procedure.

Make sure . . .

- Be sure the clock is set to the correct time and date before setting the timer.
- Power must be turn on to set automatic timer recording.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

Avoid over lap of programs...

There is a case that a program will not be performed. when programs overlap;

- The program that the start time is set earlier has priority.
- When the earliest program has finished and the programs which should start still overlap, the recording will start in order of the program number.
- If you programmed as the illustration, the timer recording would be carried out as follows (shaded part is the carried period):

    9:00AM - 10:00AM   for PROGRAM 2
    10:00AM   for PROGRAM 1
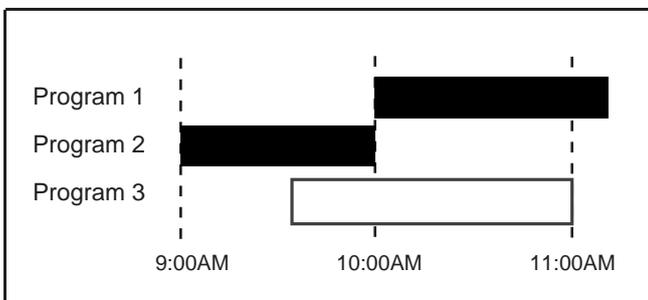
1 Select "TIMER PROGRAMMING"
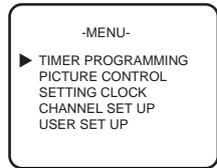
Press MENU button to point to "TIMER PROGRAMMING". And press SEL. button.

- When you did not set the clock, "SETTING CLOCK" appears. If so, follow page 11 to set the clock and repeat from step [3].

```
          -MENU-
  ► TIMER PROGRAMMING
     PICTURE CONTROL
     SETTING CLOCK
     CHANNEL SET UP
     USER SET UP
```

2 Select your desired program number (1~8)

The program number which is not set up flashes
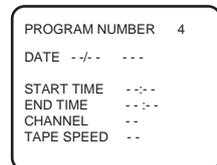
- When Timer Recording has already been filled, "PROG. 12345678" appears. If so, press MENU button to return the TV mode.

```
  PROGRAM     1 2 3 4 5 6 7 8
```

Press C/P ▼ or ▲ button repeatedly until your desired program number is appeared. (Example: 4)
And press SEL. button.

```
  PROGRAM NUMBER     4

  DATE   - -/- -   - - -

  START TIME    - -:- -
  END TIME      - - :- -
  CHANNEL       - -
  TAPE SPEED    - -
```

3 Select once, every day or weekly recording

For once recording:

Press C/P ▲ (up) button repeatedly until your desired date is appeared. (Example: "05/06" for May 6th) and press SEL. button.

```
  PROGRAM NUMBER     4

  DATE   05/06    MON

  START TIME    - -:- -
  END TIME      - - :- -
  CHANNEL       - -
  TAPE SPEED    - -
```
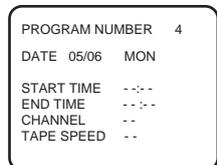
For every day recording: *To record a TV program at the same time on the same channel every day. (Example: Monday through Sunday)*

Press C/P ▼ (down) button repeatedly until "EVERY DAY" is appeared. And press SEL. button.

```
  PROGRAM NUMBER     4

  DATE      EVERY DAY

  START TIME    - -:- -
  END TIME      - - :- -
  CHANNEL       - -
  TAPE SPEED    - -
```
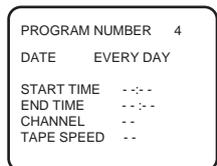
For weekly recording: *To record a TV program at same time on the same channel every week. (Example: every Monday on channel 7 at 17:00)*

Press C/P ▼ (down) button repeatedly until "EVERY" and your desired day of the week is appeared together. And press SEL. button.

```
  PROGRAM NUMBER     4

  DATE      EVERY SAT

  START TIME    - -:- -
  END TIME      - - :- -
  CHANNEL       - -
  TAPE SPEED    - -
```

Program 1
Program 2
Program 3

9:00AM   10:00AM   11:00AM
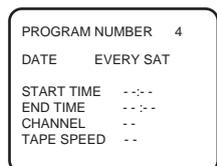
4. Set start hour

Press C/P ▼ or ▲ button
repeatedly until your desired hour
is appeared. (Example: "19" for
19:30)
And press SEL. button

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       -- --
CHANNEL        - -
TAPE SPEED     - -
```

5. Set start minute

Press C/P ▼ or ▲ button repeatedly
until your desired minute is
appeared. (Example: "30" for
19:**30**)
And press SEL. button.

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       -- --
CHANNEL        - -
TAPE SPEED     - -
```

6. Set end hour

Press C/P ▼ or ▲ button repeatedly
until your desired hour is
appeared. (Example: "20" for
20:50)
And press SEL. button.

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       20 --
CHANNEL        - -
TAPE SPEED     - -
```

7. Set end minute

Press C/P ▼ or ▲ button repeatedly
until your desired minute is
appeared: (Example: "50" for
20:**50**)
And press SEL. button.

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       20:30
CHANNEL        - -
TAPE SPEED     - -
```

8 Set the channel number

Press C/P ▼ or ▲ button repeatedly
until your desired channel
number is appeared. (Example:
CH36)
And press SEL. button.

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       20:30
CHANNEL        36
TAPE SPEED     - -
```

9. Set the tape speed

Press C/P ▼ or ▲ button repeatedly
until your desired tape
speed is appeared. (Example: LP)

```
PROGRAM NUMBER  4
DATE  05/06    MON
START TIME     10:30
END TIME       20:30
CHANNEL        36
TAPE SPEED     LP
```

10 Exit the program mode

Press SEL. button. Program 4 is now completed.
To set another program, repeat steps [1] to [10]

11 Set the timer

Press FUNCTION button to set automatic timer
recording. The REC indicator lights up.
- You must turn off the TV/VCR to activate automatic.
  timer recording.
  If power is not turned off and you continue watching
  TV, "TIMER REC STANDBY" starts flashing on
  the TV screen 2 minutes before the programmed start
  time.

TO CORRECT A PROGRAM

- **While setting a program;** press ADD/ DELETE
  button to go back one step, and enter correct numbers
  using C/P ▼ or ▲ button
- **After setting a program;**
  1) Press FUNCTION button.
  2) Repeat steps [1] - [2].
  3) Press SEL. button repeatedly (or press
     ADD/DELETE button to go back one step)
     until a digit you want to correct flashes and
     make changes.
  4) Press MENU button.
  5) Repeat step [11].

TO CANCEL AN AUTOMATIC TIMER RECORDING

- **While setting or after setting a program;**
  1) Press FUNCTION button.
  2) Repeat steps [1] ~ [2] and select a program number
     you want to cancel.
  3) Press ADD/DELETE button.
  4) Press MENU button to return to the TV mode.
- **While recording is in progress;**
  1) Press FUNCTION button.
  2) Press STOP/EJECT button on the TV/VCR.

  If you press FUNCTION button to turn off before the
  end time, timer recording will continued. Repeat
  steps [1] ~ [2] select a program number you want to
  cancel and press ADD/DELETE button. Press
  MENU button to return to the TV mode.

TO CHECK THE START/END TIME

1) Press FUNCTION button so that the REC indicator goes off.
2) Press MENU button to point to "TIMER PROGRAMMING".
3) Press SEL. button.
4) Select a program number you want to check using C/P ▼ or ▲ button. The details of selected program appears on the TV screen.
5) Press MENU button. The TV screen returns to the TV mode.

HINTS:

- Make sure the channel you want to record is properly set in advance.
- It is not necessary to press REC button for timer recording.
- Recording begins automatically at the set of the Start time.
- If you are recording using a Timer mode, you may not operate the unit manually.
- The erase-prevention tab on the cassette must be in place (or you must put tape over the hole).
- If the erasure protection tab is removed, the cassette will be ejected when the FUNCTION button is pressed to off.
- If the tape runs out before the end time, the TV/VCR will switch to the Stop mode immediately, and the tape will be ejected.

AUTO RETURN

With this feature, after finished timer recording, the beginning of the recorded program(s) can be searched automatically.

1 Select "USER'S SET UP"

Press MENU button repeatedly to point to "USER'S SET UP".

```
-MENU-
TIMER PROGRAMMING
PICTURE CONTROL
SETTING CLOCK
CHANNEL SET UP
USER SET UP
```

2 Set "AUTO RETURN" to [ON]

Press MENU button repeatedly to point to "AUTO RETURN".

Press C/P ▼ or ▲ button repeatedly until [ON] is appeared. Press MENU button.

```
GAME MODE      [OFF]
RENTAL         [OFF]
REPEAT PLAY    [OFF]
AUTO RETURN    [ON]
```

3 Auto Return will begin

When all the timer recordings are completed, the TV/VCR will rewind to the beginning of the recorded program(s).

NOTES:

- If you press FUNCTION button during rewinding a tape, the Auto Return will be stopped.
- The Counter Memory function does not be done in this mode.

4 Watch the recorded program

Press PLAY button.

SLEEP TIMER

The Sleep Timer function make the TV/VCR turn off without using the FUNCTION button after a desired time period.
Press SLEEP button on the remote control repeatedly until your desired sleep time is appeared.
It is set by 30 minutes at a time up to 120 minutes.

```
SLEEP 120MIN
```

	DISPLAY	SLEEP TIME
1 push	0 MIN.	0 minute
2 pushes	30 MIN.	30 minutes
3 pushes	60 MIN.	60 minutes
4 pushes	90 MIN.	90 minutes
5 pushes	120 MIN.	120 minutes
6 pushes	0 MIN.	0 minute

TO CANCEL THE SLEEP TIMER

Press SLEEP button repeatedly until "SLEEP 0 MIN." is appeared.

TROUBLESHOOTING GUIDE

If you have followed the instructions contained in this manual and have difficulty in operating your TV/VCR locate the SYMPTOM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to remedy the problem.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power.	• AC Power cord is not connected. • POWER switch on the back of the TV/VCR is set to OFF and/or FUNCTION button is set to OFF.	• Connect AC power cord to AC outlet. • Set the POWER switch on the back of the TV/VCR to ON and/or set the FUNCTION button to ON.
No picture and sound.	• TV/VCR is not plugged into an active AC outlet. • Antenna is not connected. • No channel in memory.	• Plug power cord into an active AC outlet. • Check antenna connection. • Program tuner's memory.
No picture or poor picture on TV/VCR.	• Direction or condition of antenna is not adequate. • Picture control is not adequate.	• Adjust direction or replace antenna. • Adjust picture controls.
No sound or poor sound.	• Volume control on remote control unit or main unit is in minimum position. • MUTE button on the remote control unit is in the ON position.	• Adjust volume control on remote control unit or set. • Press MUTE button.
Timer recording is not possible.	• The timer recording is set incorrectly. • The timer recording is not set to ON.	• Set the timer recording correctly. • Set the timer recording to ON.
Cannot go into Record mode.	• The erase-prevention tab on cassette is missing.	• Place transparent tape over missing erase-prevention tab.
Playback picture is partially noisy.	• The tracking control is not set correctly.	• Adjust tracking control for better picture.
Noise in picture on playback.	• Video heads are dirty.	• Head cleaning is necessary, consult the nearest Service Centre.
No operation by infrared Remote Control.	• No power to TV/VCR • Weak batteries.	• Make sure the AC cord is connected to an AC outlet. • Check the batteries in infrared Remote Control.

MAINTENANCE

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the TV/VCR with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the TV/VCR. Such chemicals may cause damage and discolouration to the exposed surfaces.

HEAD CLEANING

- Picture playback may become blurred or interrupted while the TV program reception is clear. This does not mean that the recorded program has been erased Dirt accumulated on the video heads after long periods of tape playback, or the usage of rental or worn tapes can cause this problem. In this case, video head cleaning requires highly technical attention, therefore consult the nearest Authorised Service Centre.
  Clean heads only when problems occur.

SERVICING

- Should your TV/VCR become inoperative, do not try to correct the problem by yourself. There are no user serviceable parts inside. Turn off, unplug the power cord, and take the unit to the nearest Authorised Service Centre for servicing.

SPECIFICATIONS

GENERAL SPECIFICAT1ONS

CRT :   14 inch in-line gun, 90° deflection tube

Television system :   PAL B/G

Video heads :   Rotary two-head

VCR video signal: PAL
NTSC 3.58 (PLAY)

Tape width :   1/2 inch

Tape speed
  PAL: SP: 23.39 mm/sec. LP 11.70 mm/sec
  NTSC (PLAY): SP: 33.35 mm/sec. SLP 11.12 mm/sec

Tuner channel
  VHF low   0-5A
  VHF high   6-11
  UHF   21-69

Tuning System :   Voltage synthesized tuning system

Terminals
  Antenna input :   VHF/UHF 75 ohms unbalanced (Din)

Earphone :   1/8" monaural (3.5 mm)
  Video/Audio input/output : scart jack (21 pin)
  Audio/Video input : RCA connector x 2
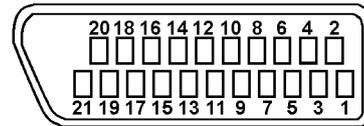
ELECTRICAL SPECIFICATIONS

Video input level :   0.5~2.0V p-p
Audio input level :   -10dBv
  Video S/N ratio :   More than 40dB
  Audio S/N ratio :   More than 36dB

OTHER SPECIFICAT1ONS

Power requirement :   AC 240V, 50Hz
Power consumption :   72W
Dimensions :   H : 402mm
                     W : 386mm
                     D : 375mm
Weight :   12.5 kg

PIN CONNECTIONS

Contacts, signal levels and impedances

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 20 18 16 14 12 10  8  6  4  2
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 └┘└┘└┘└┘└┘└┘└┘└┘└┘└┘
 21 19 17 15 13 11  9  7  5  3  1
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Contact 1	Sound output (MONO)	0.5V lkohm
Contact 2	Sound input (R)	0.5V 10kohm
Contact 3	Sound output (MONO)	0.5V lkohm
Contact 4	Sound, ground	
Contact 5		
Contact 6	Sound input (L)	0.5V l0kohm
Contact 7		
Contact 8	Remote switching	
Contact 9		
Contact 10		
Contact 11		
Contact 12		
Contact 13		
Contact 14		
Contact 15		
Contact 16		
Contact 17	Video signal, ground	
Contact 18		
Contact 19	Video output	1.0Vpp 75ohm
Contact 20	Video input	1.0Vpp 75ohm
Contact 21	Shielding	

- **Designs and specifications are subject to change without notice and without our legal obligation.**

IMPORTANT: PLEASE KEEP YOUR SALE RECEIPT/DOCKET AS PROOF OF PURCHASE FOR WARRANTY SERVICE IF REQUIRED

Palsonic WARRANTY CARD
34 cm TELEVISION/VIDEO
COMBINATION UNIT

This Palsonic TV/VIDEO COMBINATION ("the product") is warranted by PALSONIC CORPORATION PTY. LTD. ("the company") to be free from defects in material and workmanship under normal use and reasonable care (in the opinion of the company) within Australia for a period of 12 months from the date of original purchase covering both parts and labour.

This product can only be repaired under this warranty by the company or by an Authorised service centre as appointed by the company. In home service is not available on this product under the terms of this warranty. Products requiring service pursuant to this warranty should be returned to PALSONIC CORPORATION PTY. LTD. ("the company"), an authorised service centre or to an authorised retailer enclosing a copy of the purchase docket together with written instructions indicating the defect or faulty operation of the product. All freight and insurance charges are the responsibility of the owner and must be prepaid by the owner. Wherever possible the product should be returned in its original carton and packing or alternatively in a suitable carton and packing so as to prevent damage to the product. The company shall not accept any responsibility caused by inadequate or unsuitable packing.

This warranty does not cover nay product which has been subjected to misuse, abuse, neglect, accidental damage, heat, moisture, dust, improper voltage or any alteration which affects the reliability or performance of the unit, not attributable to faulty manufacture, parts or labour

This warranty does not cover free parts and labour for any product which is faulty or defective in condition (in the opinion of the company) as a result from the owner not using the product as per instructions contained in the owner manual, misadjustment of controls, reception problems arising from inadequate antenna systems/or associated television receivers, outside interference main supply problems tampering by unauthorised persons or incompatibility with other equipment.
This warranty does not cover charges resulting from service rendered outside normal business hours and/or mileage charged by Authorised service centre. The company accepts no additional liability pursuant to this warranty for transportation expenses of the product or parts to and from the service centre or dealer.

This warranty does not cover the cleaning of Audio/Video heads as this is considered routine maintenance.

In the event that the supply of goods or services pursuant to this agreement is a supply of goods or services to a consumer as defined in the Trade Practices Act 1974 (as amended) ("the Act"), nothing contained in this agreement excludes, restricts or modifies any condition, warranty, right or remedy which, pursuant to the Act, applies to this agreement or is conferred upon the customer, provided that to the extent that the Act permits PALSONIC CORPORATION PTY. LTD. to limit its liability for a breach of a condition or a warranty implied by the Act, then PALSONIC CORPORATION PTY. LTD. liability for such breach shall be limited to

a) in the case of goods supplied pursuant to this agreement, the payment of the cost of replacing the goods or of acquiring equivalent goods;

and

b) in the case of services supplied pursuant to this agreement,, the payment of the cost of services supplied again.

PALSONIC CORPORATION PTY LTD
(Incorporated in NSW)
1 Joynton Avenue
WATERLOO NSW 2017
Ph: (02) 9313 7111
Fax No: (02) 9313 7555

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